TECHGUARD 103

ANTI CARBONATION- A PROTECTIVE COATING

DESCRIPTION

TECHGUARD 103 is a high build micro porous coating with excellent resistance to attack by carbon dioxide, air borne chlorides and acid rain, with exceptional weathering characteristics.

ANTI CARBONATION

Atmospheric carbon dioxide, inborn chlorides, acids rain weathering etc. adversely effect concrete surfaces by a process known as carbonation. Over a period of time the protection of steel from corrosion by the alkaline conditions of cement is neutralized and corrosion of steel occurs, which is of critical significance. Choksey's Anti-carbonation coating i.e. Techguard 103 protects the reinforced concrete by preventing this process of carbonation.

FEATURES

- Choksey's Anti-carbonation coating Techguard 103 has an excellent adhesion to the substrate.
- A high build micro porous coating allows the surface to breathe.
- Two coats of Techguard 103 forms an impermeable coating film on the substrate surface to provide excellent waterproofing.
- Techguard 103 has excellent flexibility & crack bridging properties.
- Two coats of Techguard 103 give a very good finish and luster to the surface.
- Techguard 103 is available in different colors.

FEATURES / ADVANTAGES

- Anti carbonation properties
- Excellent weathering properties
- Excellent bonding to the substrate
- Forms a flexible film
- Crack bridging up to 0.5 mm
- Allows substrate to breathe
- Available in colors
- Single pack water base
- Non-toxic / nonflammable
- Very good resistance to fungus & algae

TYPICAL APPLICATION

- Buildings in coastal areas
- Corrosive environments
- Marine or offshore structures

- High humidity or coastal areas
- Chemical plants - External Structures
- Fertilizer plants - External Structures

TECHNICAL INFORMATION

PROPERTIES	RESULTS	SPECIFICATION
Density	1.30+/-0.05	
% Solids	60+/- 2	
Application temperature	5 to 40° C	
Touch dry	1 Hrs.	
Full cure	7 days	
Elongation (with Test Method)	200%	ASTM D 413
Tensile strength (with Test method)	4-5 kg/cm^2	ASTM D413
Pull Off Strength	>1 N/mm^2	ASTM D4541
Dirt pickup (with Test Method)	Not Measured	
Water vapour permeability (with Test Method)	20 gms/m^2/24 hours	ASTM E 96
Permeability to CO_2	>50m	EN 1062-6:2002
% Reduction in chloride ion ingress @28 days	97%	

DIRECTION FOR USE

SURFACE PREPARATION

Substrate must be clean / free from dust and loose particles. All holes and cracks must be filled with a suitable filler material such as Paintex or Polysulphide Sealant – Techseal. All traces of oil, grease or other contaminants must be removed.

PRIMING

The new concrete surface must be at least 14 days old before coating or in case of doubt, full curing of 28 days to be given. A Futura Sealer Coat is to be applied before topcoat on old or porous surface, ensure that the substrate is sound. Priming to be done with Futura Sealer Coat and then Tech Guard 103 can be applied with a brush.

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DILUTION

Add 20 % of water and stir well before application. There should be a gap of min 6 hrs between primer and first coat of Techguard 103. Second coat is to be applied after 8- 10 hrs.

COVERAGE

Techguard 103 will cover 35-40 sq.ft /ltr /2 coats. (200µ)

PACKING: 20 Liters

SHELF LIFE & STORAGE CONDITIONS

18 months from the date of mfg. if stored at a dry place at room temp.